

Date: Mon, 24 Oct 94 04:30:15 PDT  
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>  
Errors-To: Ham-Ant-Errors@UCSD.Edu  
Reply-To: Ham-Ant@UCSD.Edu  
Precedence: List  
Subject: Ham-Ant Digest V94 #354  
To: Ham-Ant

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Today's Topics:

### Advice needed for loss in BNC<->SO-239 connector  
    Beverage antennas (3 msgs)  
    Elnec Antenna Program

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Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

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We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
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Date: 20 Oct 1994 16:12:52 GMT  
From: s2202629@np.ac.sg (Teh Aik Wen)  
Subject: ### Advice needed for loss in BNC<->SO-239 connector

I'm at present trying to homebrew an antenna. It's the first time I'm doing  
it, and parts aren't exactly the easiest for me to find, especially since  
I'm not very sure what I'm looking for. (Yes, I'm very new, and I don't have  
a xceiver or anything for that matter).

Whats the antenna for? Thats a different story altogether.

Anyway, I've been trying to make this antenna featured in Sept'94 CQ.  
(Anyone else doing it/has done it, care to email me?). I didn't read it  
carefully enough, and bought a BNC connector instead of a SO-239 for the  
antenna. Not difficult I thought, just go look for a 'single-hole,  
rear-mount SO-239 socket'. But I didn't seem very successful in finding it.

What I did find however was a connector that was a BNC to SO-239.

I was wondering, how much 'losses' would I face if I went ahead and used the

BNC, followed by this connector? Reason why I want to do this is because I'm having difficulty in finding the S0-239 (single hole, rear mount).

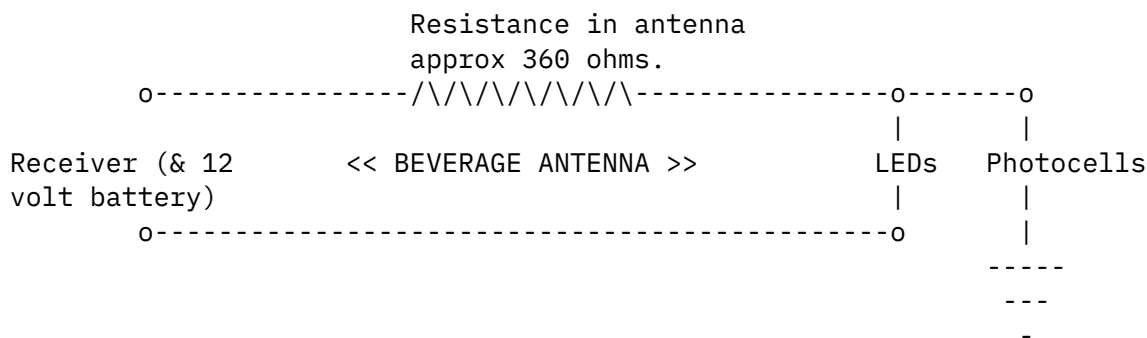
Just a note, the 'other side' of the S0-239 socket was supposed to be a length of RG-58/U that is some 2" and then connected directly to the twin lead (that makes up the antenna).

Thanks.

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Date: 19 Oct 94 22:29:42  
From: Dave.Headland@f725.n635.z3.fidonet.org (Dave Headland)  
Subject: Beverage antennas

Has anyone come up with a convenient way of remotely varying the resistance of the termination to earth from the far end of a beverage antenna, from the receiver end? I've been playing with an idea of using photocells, controlled by LEDs, but have come up with a problem of too much resistance in the antenna wire.

The beverages I've been using varying from around 750 metres to around 2000 metres in length. Using twin-flex cable the resistance is roughly 45 ohms per 250 metres, so at 2000 metres you have roughly 360 ohms - too much resistance for several (approx 5) LEDs to operate from a 12 volt battery.



Rather than use additional batteries to boost the voltage, I'm after a circuit that could perhaps take advantage of the high resistance and adjust the bias of a transistor (controlling the LEDs) at the terminated end. The 12 volt battery doesn't necessarily have to be at the receiver.

Sooner or later I will be restricted to using single core cable for the antenna, and will need to control the LEDs with a return circuit through the ground back to the receiver. I am not sure what resistance this involves but I suspect several hundred k-ohms, if not meg-ohms.

If anyone has overcome this problem I am interested to hear your comments. I've tried radio controlled servos controlling potentiometers, but without a great deal of success....

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FidoNet: Dave Headland 3:635/725  
Internet: Dave.Headland@f725.n635.z3.fidonet.org

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Date: Sun, 23 Oct 1994 23:48:22 GMT  
From: jeffrey@kahuna.tmc.edu (Jeffrey Herman)  
Subject: Beverage antennas

Dave.Headland@f725.n635.z3.fidonet.org (Dave Headland) writes:

> The beverages I've been using varying from around 750 metres to around  
> 2000 metres in length. Using twin-flex cable the resistance is roughly

What's their average height above ground, Dave?

.73W,  
Jeff NH6IL

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Date: 23 Oct 1994 23:50:01 -0400  
From: jimkd0av@aol.com (JimKD0AV)  
Subject: Beverage antennas

In article <321\_9410221145@unique.pronet.com>,  
Dave.Headland@f725.n635.z3.fidonet.org (Dave Headland) writes:

> The beverages I've been using varying from around 750 metres to around  
> 2000 metres in length.

Dave, you may want to consider shortening them as they become pretty inefficient after 3 wave lengths...i.e., 480 meters on 160. 'That would go along way in dropping ur resistance.

73, Jim KD0AV

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Date: 22 Oct 1994 22:43:23 -0400  
From: z004391b@bcfreenet.seflin.lib.fl.us (John W. Wilson)

Subject: Elnec Antenna Program

I have been using the ELNEC program since the Dayton Hamfest last year. I found it to be a well written program and an excellent tool for some antennae but has problems with Quads. The author admits this drawback but the program is worth the money anyway. I also have the ARRL MicroSmith program which accepts the ELNEC output. Together these programs can analyze and ultimately provide design information that would take time consuming experimentation otherwise.

73,  
John, KN4HX

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John W. Wilson  
z004391b@bcfreenet.seflin.lib.fl.us

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End of Ham-Ant Digest V94 #354  
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